

Syllabus

Basic data of the subject			
University/Faculty:	University of Applied Sciences in Ferizaj/ Faculty of Engineering and Informatics		
Academic unit:	Industrial Engineering and Informatics		
Title of the subject:	Technical Drawing and Descriptive Geometry		
Level:	Bachelor		
Course Status:	Obligatory		
Year of studies:	I		
Number of hours per week:	6		
Value of Credits - ECTS:	6		
Time / location:	Thursday, 13:00-17:30		
Course lecturer:			
Contact details:			
Course Description	<i>Knowledge of technical standards. Technical drawing. Formats, proportions, tables. Construction of geometric objects. Technical Writing. Dimensioning and Quoting. Technical drawing rules. Cuts. Sketching. Presentation of technical drawings. Descriptive geometry. Projection of geometric elements. Transformation. Rotation. Figure formation. Cutting the figures. Penetration of figures.</i>		
Objectives of the course:	<i>The aim of this course is to provide students with basic knowledge of technical drawing and descriptive geometry.</i>		
Expected learning outcomes:	<p><i>After the completion of this module, students will be able to:</i></p> <ul style="list-style-type: none"> <i>• know the technical letters, sorts of lines, types of paper, formats, tables,</i> <i>• understand the drawing and sketching of various geometric constructions,</i> <i>• apply dimensional rules, layout of points, lines, and objects in space,</i> <i>• create technical and engineering drawings, successfully develop engineering projects using technical drawing knowledge.</i> 		
Contribution to the student load (which must correspond with learning outcomes)			
Activity	Hour	Day/Week	In total
Lectures	2	15	30
Theoretical exercises / laboratory	2	15	30
Internship	2	2	4
Contacts with teacher / consultations	1	1	1
Field exercises			
Midterm, seminars and projects.	3	2	6
Homework	3	7	21
Self-learning time student (at the library	3	10	30

or at home)			
Final preparation for the exam	4	5	20
Time spent on evaluation (tests, quiz and final exam)	2	2	4
Projects and presentations	4	1	4
Total			150
Teaching methodology:			
	<i>Lectures through presentations, exercises tasks and examples, seminars, discussions.</i>		
Assessment methods:			
	<i>Attendance 10%, Class activities 20%, Graphic tasks 50%, Final exam 20%. Total 100%</i>		
Literature			
Basic Literature:	<p>[1] Bajraktari M. dhe Doçi I. <i>Vizatimi Teknik</i>, Prishtinë, 2014</p> <p>[2] Bajraktari M. <i>Gjeometria Deskriptive</i>, Prishtinë, 2004.</p> <p>[3] Wiliam P. Spence: <i>Drafting Technology and Practice</i>, Peoria, Illinois, 1980.</p> <p>[4] K.C. John, <i>Engineering Graphics for Diploma</i>, PHI Learning Private Limited, 2009.</p>		
Additional Literature:	[1] Bajraktari M. dhe Doçi I. <i>Prezetime nga Grafika Inxhinierike</i> , Prishtinë, 2014.		
The ratio of theory and practice	<i>Theory: 30%; Practice: 70%</i>		

Designed learning plan	
Week:	Lectures and exercises to be held
Week one:	<i>Introduction to Technical Drawing and Descriptive Geometry. Information of the course. Seminar tasks.</i>
Week two:	<i>Types of drawings. Standards. Standard numbers.</i>
Week three:	<i>Types of lines. Drawing formats. The proportion on technical drawing.</i>
Week four:	<i>Drawing of geometric constructions. Constructing lines and angles. Construction of arcs and tangents. Curve construction: ellipse, parabola, hyperbola, cycloid, spiral, helix.</i>
Week five:	<i>Technical letters. Types of writing. Symbols.</i>
Week six:	<i>Dimensioning. Dimensioning and quotation rules.</i>
Week seven:	<i>Materials in technical drawing. Quality of surfaces and signs of quality.</i>
Week eight:	<i>Intermediate I test</i>
Week nine:	<i>Projections. Types of projections. Isometric Projection and Perspectives.</i>
Week ten:	<i>Cutting. Object cutting in different planes.</i>
Week eleven:	<i>Drawing presentation. Sketching. Presentation of drawing. Presentation of details in three orthogonal projections. Presentation of objects in technical drawing with all elements.</i>
Week twelve:	<i>Different examples.</i>
Week thirteen:	<i>Point projections. Line projections. Presentation of objects in technical drawing with all elements. Transformation. Figure formation.</i>

Week fourteen:	<i>Designing figures. Cutting the figures. Penetration of figures.</i>
Week fifteen:	<i>Intermediate II test.</i>

Academic policies and rules of conduct

<i>Regular attendance, tranquility and active engagement in dialogue during lectures and exercises are obligatory. As a matter of courtesy, mobile phones should be switched off during classes and exams.</i>
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